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09/805,606

Davis et al

EAST SEARCH

5/28/04

L#	Hits	Search String	Databases
L1	27436	(particle or sphere) near10 (pack\$5 or plac\$7)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L2	18501	(particle or sphere) near5 (pack\$5 or plac\$7)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L3	22123	((particle or sphere) and (pack\$5 or plac\$7)).ab.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L4	3831	2 and ((particle or sphere) and (pack\$5 or plac\$7)).ab.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L5	1384	(particle adj pack\$5) or (sphere adj pack\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L6	237	((particle adj pack\$5) or (sphere adj pack\$5)).ab.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB
L7	1	5426501.PN.	USPAT
L8	25	5 and 7?/?\$.cds.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB

Results of search set L6:

METHODS AND COMPOSITONS FOR FORMING SUBTERRANEAN		
US 20040040713 A1	FRACTURES CONTAINING RESILIENT PROPPANT PACKS	
US 20040037780 A1	Respiratory delivery for gene therapy and lentiviral delivery particle	
US 20030118894 A1	Galvanic element having a thin, flat, and flexible metal housing	
US 20030097244 A1	Method and apparatus for creating a simulated particle pack	
	Methods and compositions for forming subterranean fractures containing resilient proppant packs	
US 6705400 B1		200400316 166/281
US 6469611 B1	Non-linear resistance with varistor behavior and method for the production thereof	
US 6454972 B1	Solid freeform fabrication using chemically reactive suspensions	
	Rheologically modified confectioneries produced by employing particular particle size distributions	
US 6391373 B1		20020521 426/631
US 6336971 B1	Method and apparatus for producing silicon carbide single crystal	
US 6255738 B1	Encapsulant for microelectronic devices	
US 6199692 B1	Reduced material box design for round objects	
	Granule for a thermoplastic end product comprising a mineral and/or a colorant pigment system	
US 6153670 A		20001128 523/210
	Molded starch-bound containers and other articles having natural and/or synthetic polymer coatings	
US 6030673 A		20000229 428/36.4
US 5932505 A	Hydrofluoric acid resistant ceramic mortar	
	Inorganically filled, starch-based compositions for manufacturing containers and other articles having a thermodynamically controlled cellular matrix	
US 5868824 A		19990209 106/162.51
US 5856252 A	Damage tolerant ceramic matrix composites by a precursor infiltration	
US 5798151 A	Hydraulically settable articles which include helically wound filaments	
US 5783246 A	Preparation of coffee products with improved particle packing characteristics	
		19980721 428/34.5
		426/594

US 5783126 A	Method for manufacturing articles having inorganically filled, starch-bound cellular matrix	19980721	264/102
US 5753742 A	High-solids, aqueous, polymeric dispersions	19980519	524/501
US 5731994 A	Method of packing particles into vessels and apparatus therefor	19980324	702/128
US 5660900 A	Inorganically filled, starch-bound compositions for manufacturing containers and other articles having a thermodynamically controlled cellular matrix	19970826	428/35.6
US 5658624 A	Articles formed by extruding hydraulically settable compositions	19970819	428/34.7
US 5652080 A	Methods and apparatus to duplicate images on various image carrying media using liquid carrier based developer	19970729	430/119
US 5549859 A	Methods for the extrusion of novel, highly plastic and moldable hydraulically settable compositions	19960827	264/102
US 5545297 A	Methods for continuously placing filaments within hydraulically settable compositions being extruded into articles of manufacture	19960813	264/102
US 5527747 A	Rapid process for the preparation of diamond articles	19960618	501/90
US 5308481 A	Chemically bound fullerenes to resin and silica supports and their use as stationary phases for chromatography	19940503	210/198.2
US 5124558 A	Imaging system for mamography employing electron trapping materials	19920623	250/484.4
US 5014967 A	Spring element	19910514	267/153
US 4992397 A	Low thermal conductivity, high strength refractory castable composition with high abrasion resistance	19910212	501/124
US 4873504 A	Bonded high energy rare earth permanent magnets	19891010	335/303
US 4598107 A	Stepwise/ultimate density milling	19860701	523/351
US 4576736 A	Method of predicting and controlling the viscosity of conductive pastes	19860318	252/512
US 4525410 A	Particle-packed fiber article having antibacterial property	19850625	428/198
US 4476026 A	Apparatus useful in identifying a solute	19841009	210/656
US 4456883 A	Method and apparatus for indicating an operating characteristic of an internal combustion engine	19840626	324/464
US 4451495 A	Increasing magnetic particle concentration in magnetic coatings	19840529	427/472
US 4361233 A	Anti-theft packaging device	19821130	206/387.11
US 4105587 A	Process for producing a particle pack composition comprising alumina and the resulting attrition resistant composition	19780808	502/219
US 4043831 A	Densification of coal fly ash	19770823	75/750
US 4008763 A	Well treatment method	19770222	166/253.1
US 3836354 A	PRODUCTION OF PELLETS	19740917	75/766
JP 2003304948 A	FILLER FOR CUSHION MATERIAL AND CUSHION MATERIAL	20031028	
JP 2003156483 A	QUANTITATIVE DETERMINATION METHOD OF CATIONIC SURFACTANT FACILITIES FOR WASTE GASIFICATION AND METHOD FOR OPERATION THEREFOR	20030530	
JP 2003064382 A	UPWARD WATER STREAM ADMITTING PACKED TOWER TYPE WATER TREATMENT EQUIPMENT	20030305	
JP 2003062581 A	PARTICLE-PACKED TYPE NET LAYING MEMBER FOR HORTICULTURAL POT OR PLANTER	20030304	
JP 2003061477 A	DEVICE FOR MEMBRANE SEPARATION AND ACTIVATED SLUDGE PROCESS	20030304	
JP 2003053368 A		20030225	

JP 2002267123 A	WASTE TREATING APPARATUS	20020918
JP 2002263415 A	FILTER MEDIUM FOR AIR FILTER AND AIR FILTER UNIT	20020917
JP 2002210478 A	METHOD FOR CLEANING WATER TREATING APPARATUS	20020730
JP 2001129338 A	DUST COLLECTOR OF EXHAUST GAS	20010515
	MANUFACTURE OF QUARTZ GLASS CRUCIBLE FOR SILICON SINGLE CRYSTAL PULLING	20000926
JP 2000264776 A	MANUFACTURE OF MOLDING FROM POLYMER FOAM PARTICLE	20000711
JP 2000190394 A	WATER TREATMENT APPARATUS	19991207
JP 411333472 A	DEPHOSPHORIZATION DEVICE	19990119
JP 11010168 A	DEPHOSPHORIZATION DEVICE	19990119
JP 11010167 A	INORGANIC SINTERED POROUS BODY AND FILTER	19970617
JP 09157060 A	PARTICLE PACKING STRUCTURE SIMULATION SYSTEM	19960723
JP 08190576 A	MEMBRANE SEPARATION DEVICE	19950711
JP 07171567 A	MANUFACTURE OF CARBON ELECTRODE	19931227
JP 05347155 A	PRODUCTION OF SILICON FOR SOLAR BATTERY	19931019
JP 05270814 A	MAGNETIC HEAD	19931008
JP 05258242 A	MANUFACTURE OF GRANULAR PARTICLE PACKED PIPE	19930406
JP 05084595 A	MOLDING METHOD	19930319
JP 05065504 A	METHOD AND DEVICE FOR TREATING EXHAUST GAS	19921022
JP 04298220 A	ANALYSIS ON OLIGO SACCHARIDE	19921021
JP 04297868 A	REACTOR WITH LOWER WALL AND/OR UPPER WALL HAVING LAYER OF FLEXIBLE REFRACTORY MATERIAL AND ITS UTILIZATION	19920817
JP 404227046 A	CERAMICS POROUS BODY	19920618
JP 04170375 A	SEALED TYPE LEAD STORAGE BATTERY	19920604
JP 04160762 A	METHOD FOR FRICTIONAL GRINDING OF RAW MATERIAL	19920131
JP 04029757 A	SEPARATION OF DNA	19911227
JP 03297387 A	SEPARATION OF DNA	19911227
JP 03297386 A	HOLLOW FIBER ELEMENT AND ITS PRODUCTION	19910925
JP 403217213 A	MOLECULAR WEIGHT DISTRIBUTION ANALYSIS FOR POLYIMIDE	19910628
JP 03152459 A	DIELECTRIC PARTICLE PACKING LAYER FILTER DEVICE	19900727
JP 02191557 A	PREFOAMED PARTICLE OF THERMOPLASTIC RESIN AND PRODUCTION OF FOAM MOLDED ARTICLE USING THE SAME	19900419
JP 02107646 A	PRODUCTION OF PRELIMINARY FOAMED PARTICLE OF COLORED POLYOLEFIN BASED RESIN AND PRODUCTION OF FOAMED MOLDED ARTICLE	19900316
JP 02077437 A	CERAMIC GRANULE FOR PRESS MOLDING	19900129
JP 02026705 A	PRODUCTION OF ALUMINUM/MAGNESIUM ALLOY CONTAINING REFRACTORY MATERIAL PARTICLE	19890919
JP 01234536 A	DUST COLLECTOR WITH ELECTRICALLY CHARGED PARTICLE PACKING LAYER	19890628
JP 01164460 A	DUST COLLECTOR FOR BED PACKED WITH ELECTROSTATIC MIGRATING PARTICLE FOR COAL GASIFICATION GAS	19881114
JP 63275694 A	METHOD OF FIXING END PART OF GAS SEPARATION MODULE	19870402
JP 62071513 A	MAGNETIC RECORDING MEDIUM	19850729
JP 60143432 A		

JP 60014918 A	FILTRATION FILTER FOR SEPARATING SOLID FROM LIQUID METHOD AND APPARATUS FOR TREATING WASTE WATER WITH AEROBIC MICROORGANISMS	19850125 19830912 19830105
JP 58153590 A	SEPARATION OF CATABOLIC HEMOGLOBIN	19830105
JP 58000760 A		
JP 57167223 A	FILLING METHOD FOR RAW MATERIAL PARTICLE IN EXPANSION MOLDING METHOD AND DEVICE FOR QUICK MEASUREMENT OF AMOUNT OF ORGANIC MATTER IN WATER	19821015 19811105
JP 56141558 A		
JP 55062107 A	DRY PROCESS DUST COLLECTING METHOD FOR BLAST FURNACE GAS	19800510
JP 55027024 A	MOLDED TABLETED CATALYSTS SHOWING HIGH SELECTIVITY	19800226
WO 134217 A2	BONE CEMENT	20010517
DE 19919652 A1	Nonlinear resistor, e.g. a field control element for cables or an overvoltage protection element, contains spherical varistor particles partially covered by conductive particles and/or comprising densely packed coarse and fine particles	20001102
EP 1026290 A1	METHOD AND APPARATUS FOR PRODUCING SILICON CARBIDE SINGLE CRYSTAL	20000809
DE 19912652 A1	Acid resistant mortar or concrete, especially for internal lining of cooling towers, is produced using a highly densifiable binder mixture of cement, fly ash and micro- silica	20000420
WO 9945789 A1	RHEOLOGICALLY MODIFIED CONFECTIONERIES PRODUCED BY EMPLOYING PARTICULAR PARTICLE SIZE DISTRIBUTIONS	19990916
WO 9934973 A1	A GRANULE FOR A THERMOPLASTIC END PRODUCT COMPRISING A MINERAL AND/OR A COLORANT PIGMENT SYSTEM	19990715
WO 9721482 A1	PROCESS FOR REDUCING NOx FROM EXHAUST FUMES	19970619
EP 727250 A2	Method of packing particles into vessels and apparatus therefor	19960821
DE 4435304 C1	Grey water purification and recycling plant which may be installed in habitable buildings	19960515
WO 9610477 A1	PLACING FILAMENTS WITHIN EXTRUDED HYDRAULICALLY SETTLEABLE COMPOSITIONS	19960411
WO 9605254 A1	STARCH-BOUND CELLULAR MATRIX	19960222
WO 9533606 A1	METHODS FOR EXTRUDING NOVEL HYDRAULICALLY SETTLEABLE COMPOSITIONS	19951214
EP 676771 A1	NUCLEAR FUEL CYCLE.	19951011
WO 9511509 A1	NUCLEAR FUEL CYCLE	19950427
WO 9502334 A1	PREPARATION OF COFFEE PRODUCTS WITH IMPROVED PARTICLE PACKING CHARACTERISTICS	19950126
DE 4319895 A1	Process for purifying solvent-containing exhaust air by adsorber resins	19941222
DE 4243864 A1	Reaction bonded silicon infiltrated silicon carbide ceramic body - has continuous silicon carbide particle size distribution allowing high packing density	19930701
WO 9301693 A1	IMAGING SYSTEM FOR MAMMOGRAPHY EMPLOYING ELECTRON TRAPPING MATERIALS	19930121

DE 3743479 C1	Device for removing oxygen	19890622
EP 320380 A1	Machine for stapling with an oscillating stapler head.	19890614
EP 287414 A2	Particle detector.	19881019
DE 3708766 A1	Container for receiving spherical objects	19880929
EP 168400 A2	Method for forming a ceramic slurry.	19860102
FR 2553962 A1	Magnetic grouping device	19850426
EP 107000 A2	Method of preparing a slurry of a ceramic oxide and a liquid premix.	19840502
GB 2027751 A	Chromium Diffusion Coating of Steel	19800227
	Modified polymer particle useful as packing material for chromatography comprises treating ester bond with acid or alkali hydrous solution to hydrolyze ester bond and isolate carboxyl group and capping free carboxyl group through amidation	
WO 2004024784 A	Liquid hardenable resin composition for consolidating proppant particles in subterranean fractures comprises hardenable resin, hardening agent for hardening resin, rubber latex, and rubber latex stabilizing surfactant	20040325
EP 1394355 A	Antistatic polyester type resin expanded particle used as buffer packing material, contains resin comprising preset amount of mixture of specific alcohol and nitrogen compound and/or ester of glycerol and alkyl fatty acid	20040303
JP 2003231770 A		20030819
JP 2003266313 A	Projection material for blasting product made from polyurethane, contains preset amount of metal type particle packed using thermoplastic resin as binder	20030924
JP 2003340461 A	Microbe eliminating system of waste water, has piezoelectric-ceramics particle packed in container of microbe eliminating apparatus, so that hydrogen peroxide is produced from dissolved oxygen in pressurized waste water	20031202
JP 2003320392 A	Scale prevention method for heat exchanger, involves circulating cool water, to make contact with chelate resin and calcium carbonate particle and/or silica gel particle, in order to remove heavy metal from water	20031111
	Analyzing genomic DNA clones, useful in functional genomics, particularly to the expression and screening of genomic DNA sequences encoding uncharacterized genes and proteins, comprises retrovirus-based genomic screening	20040101
WO 2003083075 A	Electrophoretic display device has pair of substrates each having composite resin and inorganic thin film of specific water vapor permeability	20030718
JP 2003202603 A	Method for preventing soft error	20030625
KR 2003049569 A	Impedance sensor, used to determine characteristic of packet, comprises first and second driver electrodes coupled to sensor electrode, and driven in counter phase to produce specific net output signal at sensor electrode	20030617
US 20030102854 A	Simulated particle creation method, involves selecting particle and placing in N concentric subspace such that selected particle is in non-overlapping relation with respect to catch net and water level	20030522
US 20030097244 A	Denitrification method of waste gas ejected from gas engine, involves supplying waste gas from gas engine to reactor with denitrification catalyst, after passing it through alumina particle packed layer	20030520
JP 2003144852 A		

JP 2003137353 A	Shock absorbing material for packaging, has specific volume multiplying factor, and is formed by foaming amorphous ground particles impregnated with foaming agent	20030514
JP 2003100162 A	Oxide-superconductor wire heat processing method involves raising temperature of wire above melting point of bismuth particle, and suddenly cooling it below freezing point for crystallization of bismuth particle	20030404
JP 2003093199 A	Cushion sheet for mattress, comprises thermoplastic synthetic resin hollow rod shaped component as woof component, and elastic yarn as warp component, and warp and weft are intersected	20030402
JP 2003009446 A	High-heat insulating coil for rotary electric machine has high-heat insulating layer having mica layer consisting of particle packing resin with heat conductivity of 0.6 W per mK.	20030110
JP 2003003001 A	Polyester group resin foam particle used as shock absorbing material, has co-polyester resin having preset melting point and containing terephthalic acid, and adipic acid and/or succinic acid unit components	20030108
JP 2002356731 A	Semiconductor substrate material for integrated circuits, comprises composite of refractory metal particles having preset particle diameter, and high thermal conductivity metal particle	20021213
JP 2002346566 A	Water treating unit for performing denitrification of water such as underground water, has anode and cathode which contains electroconductive particle which supported microorganisms	20021203
KR 2002087240 A	Jade fine particle pack and preparation method thereof	20021122
JP 2002283317 A	Fine particle packing method for shaping die involves forming of centrifugal force by rotation of die when packing fine particle	20021003
JP 2002279981 A	Non-sintering type nickel electrode for alkali secondary battery, comprises electroconductive non-sintering base material packed with electrode-active particles comprising nickel oxy-hydroxide	20020927
US 6454972 B	Freeform fabrication of components such as ceramic components, involves deposition of bead of fluid from mixing chamber on to platform and gelling of fluid shortly after deposition	20020924
US 20020110704 A	High yield stress magnetorheological material for space craft applications is subjected to magnetic field that aligns and increases interactive force between particles of material	20030826
JP 2002193202 A	Fine particle packing apparatus for copier, removes air from fine particles by inserting deaeration nozzle into container so as to increase powder density and filling factor	20020710
US 20020127722 A	Magneto-mechanical device is useful for delivering substances into target material	20030909
JP 2002113593 A	Particle packed tube manufacture involves inserting case with magnetic permeability core in cavity of particle packed tube close to butt welding point, to absorb magnetic lines of forces	20020416
JP 2002080001 A	Fine particle supply apparatus has vibration transmittance member in which one end is installed in inner periphery of hopper containing fine particle while other end is extended inside hopper	20020319

WO 200218585 A	New recombinant polynucleotides encoding positive-strand RNA virus structural proteins useful for creating virus-based (e.g. poxvirus) replicon particle packaging systems for use in recombinant protein synthesis or gene therapy	20040128
JP 2002059901 A	Particle packing apparatus has controller to regulate auger rotation, such that acceleration mode is gentler than deceleration mode and acceleration is successively decreased towards constant speed mode	20020226
JP 2002054850 A	Subterranean heat exchanging system for air conditioner, has heat transfer filler with fine or granular hardenable particle in fluid state, packed around heat carrier circulating pipe inserted into subterranean bore	20020220
JP 2002002832 A	Fine particle storage container e.g. toner bottle for image forming device, has double bag structure with inner deformable bag and air resistant outer bag with independent discharge openings	20020109
EP 1160260 A	Porous polymer particle for anion analysis liquid chromatography, comprises polymer substrate with ester bonds connected to group having quaternary ammonium structure by spacer molecule	20030410
JP 2001322601 A	Particle packing apparatus e.g. for wheat flour, cement, has screw feeder driving motors whose rotational speed is determined by extruding particles using screw feeders based on load of each motor	20011120
JP 2001270503 A	Tamping device for particle packing bag, has decompression chamber that decompresses several particle packing bags through predetermined pressure reduction condition	20011002
JP 2001240959 A	Transportation package for high purity sputtering target used for display device production, contains particle of specific diameter having detachment property to the target packing surface of film	20030811
JP 2001220114 A	Spherical carbon microparticle for use as electroconductive filler for resin and rubber, has preset average particle diameter, Kr adsorption BET specific surface area, crystallinity and spacing of lattice plane	20010814
JP 2001199401 A	Packing equipment for packaging of fine particles, has drive mechanism to make air siphon move vertically along interior of container to suck air in particles being filled into container from hopper	20010724
US 6255738 B	Filled, curable siloxane encapsulant composition for semiconductor chip packages, comprises filler particles having at least bi-modal particle packing distribution	20010703
EP 1097752 A	Production of polymer-particle composite for forming display material, e.g. light diffusion plate, involves bringing particle suspension containing particle dispersed in solvent capable of swelling the polymeric material	20010509
US 6199692 B	Reduced material box design for round objects	20010313
US 6428767 B	1,3-propanediol monomer useful as feed stock for polymers e.g. polypropylene terephthalate, produced by bioconversion of carbon source other than glycerol by single microorganism harboring dehydratase enzyme	20030501
RU 2160420 C	Fluidized bed furnace for reducing metal oxides	20001210

JP 2000326901 A	Fine particle packing device for use in printer, copier, has vibration generator installed at peripheral end of each oscillating transmittance rings which are attached along outer circumferential surface of hopper	20001128
JP 2000318702 A	Fine particle packing apparatus has chain block that is used in lifting flexible bag when filling bag with predetermined amount of fine particles	20001121
DE 19919652 A	Nonlinear resistor, e.g. a field control element for cables or an overvoltage protection element, contains spherical varistor particles partially covered by conductive particles and/or comprising densely packed coarse and fine particles	20001102
JP 2000238702 A	Packing system for filling flexible bag with fine particle e.g. aluminum hydroxide, aluminum oxide, has bag sending-out unit which takes out bag for particle from fine particle packing unit	20000905
JP 2000172342 A	Particle packing method of food powder, chemical/mechanical agent, involves introducing gas into hopper to enhance liquidity of particles and thereafter opening rotatable shutter, to output particles from hopper	20000623
WO 200024688 A	Hydraulically reactive particles for use as binding agents in mortar concretes and cementitious mixtures have a hydraulically reactive outer portion formed over a nonreactive interior portion	20000504
DE 19912652 A	Acid resistant mortar or concrete, especially for internal lining of cooling towers, is produced using a highly densifiable binder mixture of cement, fly ash and micro-silica	20000420
JP 11348903 A	Packing method of particles such as wheat flour, sesame seed - involves conveying particles at high speed during initial stage of packing and at low speed during final stage	19991221
JP 11301783 A	Sand and soil improving plant for manufacturing bentonite mixed soil-sand for construction - has controller which controls operation of fine particle material replenishing apparatus depending on load loss of load cell	19991102
JP 11197885 A	Open tube used for manufacturing particle packet tube - has open tube containing oil of specific density	19990727
JP 11183241 A US 5916531 A	Packing apparatus for fine particle in container - includes control system which gives information to fine particle supply unit and controls fine particle supply	19990709 19990629
US 5914492 A	Absorber and catalytic reactor	
JP 11152102 A	Application accelerator, especially free electron laser, gain monitoring system	19990622
	Fine particle packing apparatus - controls aperture width of shutter of hopper so that correct amount of fine particle is packed	19990608
JP 11130020 A	Toner container rotation direction regulation mechanism in electrophotographic copier - is provided in front of toner container and to stop container at fixed angle	19990518
JP 11092233 A	Plasticity control of clay paste containing alumina - involves arranging aggregated particles of clay paste such that predetermined clearance is maintained between them and primary particle interspace in aggregated particle constitutes specific percentage	19990406

JP 11083708 A	Fine particle kneaded specimen testing structure - has support to support bottom portion of second test piece protecting tube of test piece protecting tube which is packed with fine particle kneaded specimen	19990326
JP 10300739 A	Manufacturing method of cartridge packed column for solid phase extracts used in analysis - involves applying pressure by ultrasonic welder and giving vibration for joining column contains cap and column container	19981113
US 6136598 A	New retroviral packaging cells - containing Mus dunni endogenous virus sequences to target cells, retrovirus gag and pol genes and a heterologous gene of interest.	19981112
US 5753742 A	Water-based acrylic composition used in sealants - contains plasticised liquid acrylic polymer, filler and a high molecular weight latex producing sealants with a high solids content and low organic volatile content	19980519
JP 10051123 A	Particle array apparatus with particle dispersion prevention function - has mask with particle-packing through hole whose diameter is made bigger than particle diameter and which arranges poured resin particles inside perforated panel via suction force from substrate	19980220
JP 09239588 A	Particle detector in material packed tube - compares instrumentation signal of detected sensing coil impedance with reference signal, based on which alarm signal is generated	20031210
US 5677043 A	Opaque thermal transfer paper for thermal printer - has low density base coat coating sandwiched between paper and top coat with pigments and binders	19970807
US 5623727 A	Manufacture of article by powder metallurgy - using refractory die to shape the article with improved properties and minimal shrinkage	19970422
US 5779833 A	Manufacturing integral three dimensional object from laminations - stacking cut sheet contoured layers in desired sequence to form stack of contoured layers which are secured to each other to form integral three dimensional object	19970220
JP 08283053 A	Igniting waste plastic in rotary kiln - including making waste plastic particles into fine package current, and blowing from upper side where fuel is blown in	19961029
JP 08283052 A	Blowing waste plastic in rotary kiln - including making waste plastic particles into fine package current, and blowing from upper side where fuel is blown in	19961029
JP 08283051 A	Mfr of quick lime and burned dolomite in rotary - by making waste plastic particles into fine package current as fuel, and blowing into kiln	19961029
WO 9629146 A	Wet-laid, porous, pleatable, solid phase extraction sheet - comprising polymeric hydrocarbon binder and reactive or sorptive particles trapped in porous polymeric pulp, having excellent wet strength.	19960926
US 5545450 A	Moulded article mfr. e.g. disposable food and beverage containers - by evapn. of water from inorganically filled mixt. comprising water, water dispersible organic polymer binder, inorganic aggregate and fibrous material	19960813
JP 08144297 A	Hollow bundle base frame for installation of prop such as fence - has cone shaped plastic material with opening in upper part	19960604

DE 4435304 C	Grey water purification and recycling plant which may be installed in habitable buildings - comprises sedimentation, bio reactor and final settlement stages with a UV disinfection unit, all constructed for minimal cost and maintenance	19960515
JP 08027700 A	Pulp moulded article of good cushioning effect - is prepd. using hollow particles coated with surface protective layer to prevent fragmentation	19960130
EP 758261 B	New functionalised macroporous polystyrene di:vinyl-benzene particles - useful in solid phase extraction applications	19951116
EP 676771 B	Cycling nuclear fuel for e.g. fast breeder reactor - using Uranium-Plutonium-mixed nitride and minor actinoids nitride fuel	19950427
US 5527387 A	Optimising compsn. and cost of cementitious mixts. - comprises using mathematical model to maximise component packing density and adjusting fine-to-coarse aggregate ratio to minimise cost	19950223
JP 06113765 A	Grain (corn) particle-packed food prepn. - by housing with emulsion in a sealed container and sterilising	19940426
EP 655991 B	Wood wool building board - is infiltrated with a foam bonding agent as the material is compressed to give increased pore structure with lower bonding agent consumption	19940303
US 5225489 A	Polymeric composite of distortion temp strength, stiffness and impact resistance - contg short fibres of anisotropic polymer of varying length, dia and aspect ratio uniformly homogeneously distributed in thermoplastic and thermoset polyester	19930706
DE 4243864 A	Reaction bonded silicon infiltrated silicon carbide ceramic body - has continuous silicon carbide particle size distribution allowing high packing density	19930701
SU 1766451 A	Thickener for suspensions, not generating vortex flow - has cylindro-conical processor with controlled output increasing efficiency by factor of 1.8 to 2	19921007
JP 03297386 A	Efficient sepn. of DNA samples of different mol.wt. - comprising sepg. sample into portions for gel chromatography and other chromatography prior to passage through spherical particle packing	19911227
FR 2662565 A	Sonar transmitter-receiver for ship ice-breaker - has transducers which convert energy to sound waves and returned wave contains doppler reflection for speed determination	19911129
GB 2234237 A	Gypsum and pulverised fly ash which are by-products of power stations - are stored as mix in form of blend of powders or as granules prior to use in making cement	19910130
EP 407104 A	Heating wire with inorganic insulation esp. for cathode ray tube - includes first and second insulating layers of inorganic particles deposited to specific packing rates	19910109
DE 3902032 A	Sintered metallic light constructional material - esp. with nickel aluminate webs forming closely packed spherical cavities	19900726
SU 1579535 A	Centrifugal separator for sepn. of soot from soot-gas stream - has sepn. element made as hollow truncated cone	19900723

DE 3837412 A	Separator preventing particles from exiting chamber - having drum, casing section, conical member, inlet and outlet, gap and spherical rolling particles	19900510
SU 1525681 A	CCD packets control device - has divider, three switches and intermediate chargers	19891130
JP 01256328 A	Water culture medium effectively supplying plant nutrient - comprising carbonated particle carrier and nutrient fertiliser soln.	19891012
DE 3743479 C	Oxygen extractor for domestic heating circuit - has metal particle pack and sludge collecting chamber in container	19890622
EP 317732 A	Spring element comprising elastomer block - has hollow channels passing through hollow spaces producing effective silent damping	19890531
JP 63072802 A	Compacting powder materials e.g. metal powders - by fluidising the materials, adding resin powder and mixing obtd. resin coated powder material with water, etc.	19880402
JP 62204806 A	Collecting valuable components from soln. - by passing through adsorbent layer of solid packed in vessel	19870909
DE 3601438 C	Composite laminated friction or bearing material - comprises steel coated with two layers contg. copper and/or tin which are sepd. by diffusion inhibiting layer of e.g. titanium	19870409
US 4597924 A	Composite propellant grain contg. thermoplastic elastomer binder - mfd. using tetra:alkyl titanate bonding agent additive to improve processability and mechanical properties	19860701
DE 3414996 C	Foil bag stack thrusting mechanism off pallet - has slide carriage with two rows of fingers, one holding lower layer of bags in position, on thrust drive actuation	19851114
DE 3401115 A	Prepn. of ester of glyoxylic acid - by oxy-dehydrogenation of glycolic acid ester on catalyst with channelled monolith carrier	19850718
US 4498966 A	Aluminium reduction cell - having loose refractory hard metal shaped forming the cathode surface	19850212
AU 8319853 A	Operating characteristic indication method for IC engine - sensing presence of charged particles in exhaust gas stream and is esp. useful for monitoring emissions from diesel engine	19840412
EP 103214 A	Welded fibre article packed with zeolite particles - ion exchanged with bactericidal metal	19840321
JP 59042085 A	Stack gas desulphurisation process aq. waste purificn - involves electrolysis of liq. resulting from sepn. of waste treated with calcium hydroxide or carbonate	19840308
WO 8302008 A	Packed column thermal reactor for analytical instrument - has good process stream resolution and long transport delay time	19830609
BE 895764 A	Quenching appts. for thermal toughening of glass - lowers hot glass pane into air-fluidised particle zone	19830516
JP 58057462 A	Hollow sphere-packed silicone rubber prepn. - by packing hollow filler, e.g. glass, carbon etc., of particle size less than 60 microns, in silicone rubber	19830405
SU 1000098 A	Fluidised bed reactor for drying, etc. - has twin parallel casings with catalyst packed gas lines, and electric heaters to stabilise operation	19830228

JP 57201591 A	Purifying waste water contg. suspended solids - by feeding into solid particle packed bed to lower BOD and COD and remove some solids, and then to fluidised active carbon or zeolite bed	19821210
US 4259389 A	Gas-tight seal compsn. for fuel cell plates - comprises an inert powder of variable particle size in a PTFE binder	19810331
FR 2462388 A	Active charcoal prepn. from mixt. of (non)carbonaceous particles - by suspension in slurry with lyophobic liquid additive, sepn., drying and heat treatment	19810320
EP 24802 A	Corrosion resistant coating on metal - by physical vapour deposition followed by diffusion coating	19810311
GB 1572002 A	Curable resin foam producing appts. - including resin and hardener and air ducts having simultaneously operated valves	19800723
JP 52155610 A	Graphitising long carbon material - such as burned electrodes and pipes	19771224
JP 52117867 A	Removing oxygen from krypton or xenon before liquefaction - by contact with carbon granules, paraffin or sulphur	19771003
DE 2628783 A	Alkyl phthalimide prepn. from liquid phthalic anhydride - by reaction with gaseous alkylamine in hot tube reactor	19770127
DE 2519623 A	Continuous flow electrical water heater - has conducting plastic heating element which exhibits sudden change in resistance at specified temp.	19761111
US 3836354 A	Induration of metallurgical pellets - of uniform size and density formed by tumbling cubes of consolidated wet pellet material	19740917

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




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1 [Algorithms for congruent sphere packing and applications](#)

Danny Z. Chen, Xiaobo Hu, Yingping Huang, Yifan Li, Jinhui Xu

 June 2001 **Proceedings of the seventeenth annual symposium on Computational geometry**

Full text available: pdf(290.09 KB)

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The problem of packing congruent spheres (i.e., copies of the same sphere) in a bounded domain arises in many applications. In this paper, we present a new pack-and-shake scheme for packing congruent spheres in various bounded 2-D domains. Our packing scheme is based on a number of interesting ideas, such as a trimming and packing approach, optimal lattice packing under translation and/or rotation, shaking procedures, etc. Our packing algorithms have fairly low time complexities. In cert ...

2 [Efficient adaptive meshing of parametric models](#)

Alla Sheffer, Alper Üngör

 May 2001 **Proceedings of the sixth ACM symposium on Solid modeling and applications**

Full text available: pdf(1.45 MB)

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Parametric modeling is becoming the representation of choice for most modern solid modelers. However, when generating the finite-element mesh of the model for simulation and analysis, most meshing tools ignore the parametric information and use only the boundary representation of the model for meshing. This results in re-meshing the model basically from scratch each time a parametric change is instantiated, which happens numerous times throughout the design process.

In this paper we I ...

Keywords: adaptivity, mesh generation, parametric models

3 Nearest neighbor queries in metric spaces ☐


Kenneth L. Clarkson

May 1997 **Proceedings of the twenty-ninth annual ACM symposium on Theory of computing**Full text available:  pdf(1.31 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**4** Bubble mesh: automated triangular meshing of non-manifold geometry by sphere packing ☐

Kenji Shimada, David C. Gossard

December 1995 **Proceedings of the third ACM symposium on Solid modeling and applications**Full text available:  pdf(1.03 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**5** Applications: Computer assisted sphere packing in higher dimensions ☐


Nelson Max

October 1991 **Proceedings of the 2nd conference on Visualization '91**Full text available:  pdf(577.01 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

A computer was used to help study the packing of equal spheres in dimension four and higher. A candidate for the densest packing in 4-space is described. The configuration of 24 spheres touching a central sphere in this packing is shown to be rigid, unlike the analogue in 3-space, in which the spheres can slide past each other. A system for interactively manipulating and visualizing such configurations is described. The Voronoi cell for a sphere is the set of points closer to its center than to a ...

6 Generating well-shaped Delaunay meshed in 3D ☐

Xiang-Yang Li, Shang-Hua Teng

January 2001 **Proceedings of the twelfth annual ACM-SIAM symposium on Discrete algorithms**Full text available:  pdf(827.07 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A triangular mesh in 3D is a decomposition of a given geometric domain into tetrahedra. The mesh is well-shaped if the aspect ratio of every of its tetrahedra is bounded from above by a constant. It is Delaunay if the interior of the circum-sphere of each of its tetrahedra does not contain any other mesh vertices. Generating a well-shaped Delaunay mesh for any 3D domain has been a long term outstanding problem. In this paper, we present an efficient 3D Delaunay meshing algorithm that mathemat ...

Keywords: Delaunay triangulations, algorithms, computational geometry, mesh generation, slivers

7 Session P3: filtering and sampling: Optimal regular volume sampling ☐

Thomas Theußl, Torsten Möller, Meister Eduard Gröller

October 2001 **Proceedings of the conference on Visualization '01**

Full text available:  [pdf\(867.54](#)

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The classification of volumetric data sets as well as their rendering algorithms are typically based on the representation of the underlying grid. Grid structures based on a Cartesian lattice are the de-facto standard for regular representations of volumetric data. In this paper we introduce a more general concept of regular grids for the representation of volumetric data. We demonstrate that a specific type of regular lattice --- the so-called *body-centered cubic* --- is able to represent ...

Keywords: Cartesian grid, body centered cubic, close packing, hexagonal sampling, volume data

8 Separators for sphere-packings and nearest neighbor graphs ☐

Gary L. Miller, Shang-Hua Teng, William Thurston, Stephen A. Vavasis

January 1997 **Journal of the ACM (JACM)**, Volume 44 Issue 1

Full text available:  [pdf\(651.91](#)

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A collection of n balls in d dimensions forms a k -ply system if no point in the space is covered by more than k balls. We show that for every k -ply system \mathcal{G}_{gr} , there is a sphere S that intersects at most $O(k^{1/d}n^{1-1/d})$ balls of \mathcal{G}_{gr} ; and divides the remainder ...

Keywords: centerpoint, computational geometry, graph algorithms, graph separators, partitioning, point location, probabilistic method, randomized algorithm, sphere-preserving mapping

9 Lattice computers for approximating Euclidean space ☐

John Case, Dayanand S. Rajan, Anil M. Shende

January 2001 **Journal of the ACM (JACM)**, Volume 48 Issue 1

Full text available:  [pdf\(270.53 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In the context of mesh-like, parallel processing computers for (i) approximating continuous space and (ii) analog simulation of the motion of objects and waves in continuous space, the present paper is concerned with which mesh-like interconnection of processors might be particularly suitable for the task and why. Processor interconnection schemes based on nearest neighbor connections in geometric lattices are presented along with motivation. Th ...

10 Improved bounds on the sample complexity of learning



Yi Li, Philip M. Long, Aravind Srinivasan

February 2000 **Proceedings of the eleventh annual ACM-SIAM symposium on Discrete algorithms**

Full text available:  [pdf\(831.96 KB\)](#)


Additional Information: [full citation](#), [references](#), [index terms](#)

11 Smoothing and cleaning up slivers



Herbert Edelsbrunner, Xiang-Yang Li, Gary Miller, Andreas Stathopoulos, Dafna Talmor, Shang-Hua Teng, Alper Üngör, Noel Walkington

May 1999 **Proceedings of the thirty-second annual ACM symposium on Theory of computing**

Full text available:  [pdf\(540.95 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


Keywords: Delaunay triangulations, computational geometry, mesh clean-up, mesh generation, mesh smoothing, slivers, tetrahedral meshes

12 A Sufficient Bound for Codes Correcting Bursts with Weight Constraint



Bal Kishan Dass

October 1975 **Journal of the ACM (JACM)**, Volume 22 Issue 4

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13 A lower bound for Heilbronn's triangle problem in d dimensions









Gill Barequet

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Full text available:  [pdf\(535.44 KB\)](#)


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Keywords: Heilbronn's triangle problem, probabilistic method

- 14 Optimal good-aspect-ratio coarsening for unstructured meshes ☐
Gary L. Miller, Dafna Talmor, Shang-Hua Teng
January 1997 **Proceedings of the eighth annual ACM-SIAM symposium on Discrete algorithms**
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June 1998 **Proceedings of the fourteenth annual symposium on Computational geometry**
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- 16 The complexity of learning according to two models of a drifting environment ☐
Philip M. Long
July 1998 **Proceedings of the eleventh annual conference on Computational learning theory**
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Shay Kutten, Boaz Patt-Shamir
August 1997 **Proceedings of the sixteenth annual ACM symposium on Principles of distributed computing**
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Peter L. Bartlett, Philip M. Long
July 1995 **Proceedings of the eighth annual conference on Computational learning theory**
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- 19 Fault-local distributed mending (extended abstract) ☐
Shay Kutten, David Peleg
August 1995 **Proceedings of the fourteenth annual ACM symposium on Principles of distributed computing**
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20 Geometric range searching

Jiří Matoušek

December 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 4Full text available:  [pdf\(3.92 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#),
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In geometric range searching, algorithmic problems of the following type are considered. Given an n -point set P in the plane, build a data structure so that, given a query triangle R , the number of points of P lying in R can be determined quickly. Similar questions can be asked for point sets in higher dimensions, with triangles replaced by simplices or by more complicated shapes. Algorithms of this type are of crucial importance in computational geometry, as they can be used ...

Keywords: computational geometry, lower bounds in arithmetic model, partition tree, range searching

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Page 1. 6RO(O &RQIHUHQFH UHSRUW 39 LQ (XURSH)URP 39 WHFKQRORJ\ WR HQHUJ\

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